

December 1, 2009

US EPA, Region 1  
PWTF GP Processing  
Municipal Assistance Unit (CMU)  
1 Congress Street, Suite 1100  
Boston, MA 02114-2023

RE: Town of Weymouth - Arthur J. Bilodeau Water Treatment Plant  
Potable Water Treatment Facility General Permit  
NPDES General Permit No. MAG6400060 Notice of Intent

DEC - 8 2009

To Whom It May Concern:

On behalf of the Town of Weymouth, please find enclosed a complete Notice of Intent (NOI) for coverage of the Arthur J. Bilodeau Water Treatment Plant (WTP) under the National Pollutant Discharge Elimination System (NPDES) General Permit for discharges from Potable Water Treatment Facilities (PWTF). The Bilodeau WTP is located at 95 Winter Street in Weymouth, Massachusetts (refer to Figure 1 - Site Locus). This NOI details the re-application of the WTP's existing NPDES PWTF General Permit (MAG6400060), which was terminated March 15, 2002 and requested to be re-issued in a letter dated January 17, 2008 (refer to Attachment II). A transmittal number was not referenced in the 2002 Notice of Intent.

This complete NOI package consists of the following:

- Environmental Protection Agency (EPA) PWTF NPDES General Permit NOI form;
- Site figures including a site locus, site plan identifying WTP's discharge location, and the WTP's process flow diagram;
- A copy of the January 17, 2008 letter to the Massachusetts DEP requesting the re-issuance of the WTP's previously terminated NPDES General Permit;
- A copy of the March 15, 2002 letter from the EPA to the Town acknowledging the termination of the WTP's NPDES General Permit;
- A copy of the March 11, 2002 letter from the Town to the EPA requesting the termination of the WTP's NPDES General Permit;
- A copy of the February 22, 2002 letter from the EPA to the Town authorizing the WTP's NPDES General Permit;
- A copy of the February 19, 2002 letter from the MA DEP to EPA support for authorizing the WTP's NPDES General Permit;
- A copy of January 8, 2001 Notice of Intent from the Town to the EPA requesting coverage of the WTP under the NPDES General Permit; and
- Copies of the laboratory analytical reports for the September 2009 and October 2009 NPDES discharge monitoring events.

The NOI form provides an overview of the existing Bilodeau WTP physical and chemical treatment processes. The WTP currently has two lined residuals lagoons that discharge to the Mill River, a Class A waterbody in the Weymouth and Weir watershed.

Thank you for your cooperation and assistance. Please feel free to contact me at (617) 657-0255 (sco@envpartners.com) or the Water and Sewer Superintendent, Michael Chiasson at (781) 337-5100 (mchiasson@weymouth.ma.us) if you have any questions or require additional information.

Very Truly Yours,  
Environmental Partners Group, Inc.



Stephen C. Olson, P.E.  
Senior Project Manager

Encl: PWTF NPDES General Permit NOI  
Figures  
Historical NPDES correspondence  
Laboratory analytical reports

CC: MA DEP, Division of Watershed Management  
Robert O'Connor, Director of Public Works  
Michael Chiasson, Water and Sewer Superintendent  
Alan Cowing, Treatment and Operations Manager

## **APPENDIX IV NOTICE OF INTENT INSTRUCTIONS AND SUGGESTED FORMS**

### **I. Notice of Intent (NOI) Instructions**

#### **A. Required Information**

In order to be covered by the Potable Water Treatment Facility General Permit (PWTF GP) applicants must submit a written NOI to EPA and the appropriate state agency. The NOI consists of either the suggested NOI form included in this Appendix or another form of official correspondence that contains all of the required information listed in the General Permit and the suggested NOI form.

#### **B. Signature Requirements**

The Notice of Intent must be signed and dated in accordance with the signatory requirements of 40 CFR Section 122.22, including the certification statement shown on the suggested NOI form.

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively; or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

#### **C. Submission of NOI to EPA**

Signed and completed NOI forms and attachments must be submitted to EPA at the address included in Appendix VI. A copy of the NOI form and any additional state required forms must also be submitted to the appropriate state agency at the addresses included in Appendix VI. See Part 4.2 and Appendix VI of the PWTF GP for additional State requirements.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
NEW ENGLAND - REGION I  
ONE CONGRESS STREET, SUITE 1100  
BOSTON, MASSACHUSETTS 02114-2023

Request for General Permit Authorization to Discharge Wastewater  
(Notice of Intent to be covered by the General Permit (NOI))

Potable Water Treatment Facility (PWTF)  
NPDES General Permit No. MAG640000 and NHG640000

A. Facility Information

1. Facility Owner:

Name TOWN OF WEYMOUTH - DEPT. OF PUBLIC WORKS e-mail boconnor@weymouth.ma.us  
Street/PO Box 120 WINTER STREET City WEYMOUTH  
State MA Zip Code 02188  
Contact Person ROBERT F. O'CONNOR, DIRECTOR Telephone Number (781) 337-5100

2. Facility Operator (if different from above):

Name e-mail (optional)  
Street/PO Box City  
State Zip Code  
Contact Person Telephone Number

3. Facility Data (attach topographic map or other map showing facility/discharge location):

Name ARTHUR J. BILODEAU WTF e-mail (optional)  
Street/PO Box 95 WINTER STREET City WEYMOUTH  
State MA Zip Code 02188  
Contact Person ALAN COWING, TREATMENT & OPERATIONS MGR. Telephone Number (781) 337-0064  
Latitude 42° 9' 59.33" N Longitude 70° 58' 08.77" W

4. Standard Industrial Classification (SIC Codes) and Descriptions of Processes:

SIC Code(s) NOT APPLICABLE  
Description(s)

5. Current Permitting Status (please check yes or no):

1. Has a prior NPDES permit been granted for the discharge? Yes ☒ (Permit Number: MAG640060)  
No ☐  
2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes ☐ No ☒  
3. Is the facility covered by an individual NPDES permit? Yes ☐ (Permit Number ) No ☒  
4. Is there a pending application on file with EPA for this discharge? Yes ☐ (Date of submittal: ) No ☒

B. Discharge Information

1. Name of Receiving Waterbody MILL RIVER  
2. Type of Receiving Waterbody (e.g. stream, lake, reservoir, estuary etc) RIVER  
3. State Water Quality Classification: CLASS A Freshwater: Marine Water:  
4. Describe the discharge activities for which the owner/applicant is seeking coverage, including process discharges not specifically authorized in the PWTF GP which need to be authorized for discharge (and which attain the

effluent limits and other conditions of the general permit). This description should include all treatment methods used on the wastewater prior to discharge including lagoons, baffles, filter presses etc. If lagoons are used at the facility, please include the number and size of lagoons; the size and elevation of the entry pipe; the time of travel from the entry point of the discharge into the lagoon to the entry point to the receiving water; and the length of backwash cycle for any combination of number of filters. (attach extra sheets if necessary):

THE A.J. BILODEAU WTF (CAPACITY OF 4 MGD) TREATS GROUND WATER FROM FIVE GROUNDWATER WELLS FOR THE PRODUCTION OF DRINKING WATER USING SEVERAL PHYSICAL AND CHEMICAL TREATMENT PROCESSES. CHEMICAL ADDITION AT THE FACILITY CONSISTS OF POTASSIUM PERMANGANATE FOR OXIDATION, SODIUM HYDROXIDE FOR pH ADJUSTMENT, SODIUM FLUORIDE FOR FLUORIDATION, CHLORINE GAS FOR DISINFECTION, AND PHOSPHORIC ACID FOR CORROSION CONTROL. THE PHYSICAL TREATMENT PROCESSES INCLUDE AERATION FOR PARTIAL REMOVAL OF IRON AND MANGANESE, DISSOLVED CARBON DIOXIDE, AND VOCs, FLOCCULATION WITH WALKING-BEAM TYPE FLOCCULATORS, SEDIMENTATION IN PARALLEL HIGH RATE TUBE SETTLERS, AND FILTRATION WITH GRANULAR ACTIVATED CARBON FOR ADDITIONAL IRON AND MANGANESE REMOVAL AND VOC REMOVAL. SEDIMENTATION RESIDUALS ARE PUMPED AND FILTER BACKWASH WASTE FLOW BY GRAVITY TO TWO LINED LAGOONS. LAGOON SUPERNATANT IS DISCHARGED TO THE MILL RIVER WATERSHED.

5. Please provide a diagram depicting the treatment methods, outfalls, and receiving water.

6. Number of outfalls: 2

For each outfall:

7. What is the proposed sampling location(s) and proposed consistent times of the month for collecting samples:  
EACH LAGOON HAS 1 OUTFALL LOCATON. ONLY ONE OUTFALL IS ACTIVE AT A TIME. THE PROPOSED SAMPLING LOCATION IS AT  
THE DISCHARGE OF THE ACTIVE LAGOON OUTFALL PIPE. SAMPLES FOR pH AND TSS ARE PROPOSED TO BE COLLECTED WEEKLY.

### C. Effluent Characteristics

1. List here and attach information on any water additives used at the facility (Including chemicals for pH adjustment, dechlorination, control of biological growth, and control of corrosion and scale in water pipes): POTASSIUM PERMANGANATE SODIUM HYDROXIDE, CHLORINE GAS, PHOSPHORIC ACID, AND SODIUM FLUORIDE

2. Please report here any known remediation activities or water-quality issues in the vicinity of the discharge.  
NOT APPLICABLE

3. Are aluminum-containing coagulants used at this facility? Yes      No ✓

4. Does the discharge contain residual chlorine? Yes      No ✓

5. Does the facility provide treatment to remove arsenic from the raw water source? Yes      No ✓

6. Are phosphorus-containing chemicals added to the treated water at this facility? Yes ✓ No     

7. All applicants must attach a separate sheet listing all laboratory results (minimum of five) for total recoverable aluminum (in micrograms per liter) taken within the last six months. Do not include dilution when recording your results. See Section 4.4.5 of General Permit for more information.

8. Please include the following effluent data for each outfall:

<u>Characteristic (report if measured)</u>	<u>Average Monthly</u>	<u>Maximum Daily</u>
Discharge Flow (gpd)	<u>20,000</u>	<u>50,000</u>
TSS (mg/l)	<u>&lt; 5.0</u>	<u>7.5</u>
pH (s.u.)	<u>(min) 7.19</u>	<u>(max) 9.23</u>
Total Recoverable Aluminum (ug/l)	<u>0.04</u>	<u>0.059</u>
Total Residual Chlorine (ug/l)	<u>N/A</u>	<u>N/A</u>

(continued on next page)



8. Continued

Characteristic (report if measured)

Whole Effluent Toxicity (%) LC50 N/A and/or C-NOEC N/A

9. If the discharge contains aluminum and/or residual chlorine, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water, the dilution factor, and attach any calculations used to support stream flow and dilution calculations (See Appendix VII for dilution calculations and additional information):

7Q10 \_\_\_\_\_ cfs Dilution Factor \_\_\_\_\_ cfs

**D. Endangered Species Act Eligibility**

1. Using the instructions in Appendix I of the PWTF GP, under which criterion listed in Part II are you eligible for coverage under this general permit?

A ☒ B \_\_\_\_\_ C \_\_\_\_\_ D \_\_\_\_\_ E \_\_\_\_\_ F \_\_\_\_\_

2. If you selected criteria D or F, has consultation with the federal services been completed? Yes \_\_\_\_\_ No \_\_\_\_\_

3. If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received? Yes \_\_\_\_\_ No \_\_\_\_\_

4. Attach documentation of ESA eligibility as described below and required at Part 3.4.1 and Appendix I, Part III, Step 4, of the General Permit.

*Criterion A - No federally-listed threatened or endangered species or federally-designated critical habitat are present:* A copy of the most current county species list pages for the county(ies) where your site or facility and discharges are located. You must also include a statement on how you determined that no listed species or critical habitat are in proximity to your site or facility or discharge locations.

*Criterion B - Section 7 consultation completed with the Service(s) on a prior project:* A copy of the USFWS's and/or NMFS's, as appropriate, biological opinion or concurrence on a finding of "unlikely to adversely effect" regarding the ESA Section 7 consultation.

*Criterion C - Activities are covered by a Section 10 Permit:* A copy of the USFWS's and/or the NMFS's, as appropriate, letter transmitting the ESA Section 10 authorization.

*Criterion D - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" federally-listed species or federally-designated critical habitat (not including the four species of concern identified in Section I of Appendix I):* A copy of the USFWS's and/or the NMFS's, as appropriate, letter or memorandum concluding that the discharge is consistent with the general permit's "not likely to adversely affect" determination.

*Criterion E - Activities are covered by certification of eligibility:* A copy of the documents originally used by the other operator of your site or facility (or area including your site) to satisfy the documentation requirement of Criteria A, B, C or D.

*Criterion F - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" species of concern, as identified in Section I of Appendix I:* A copy of the USFWS and/or the NMFS, as appropriate, concurrence with the applicant's determination that the discharge is "not likely to adversely affect" listed species.

**E. National Historic Properties Act Eligibility**

1. Using the instructions in Appendix III of the PWTF GP, under which criterion listed in Part III are you eligible for coverage under this general permit?

1 ☒ 2 ☐ 3 ☐

2. Have any State or Tribal historic preservation officers been consulted in this determination? Yes ☐ No ☒  
If yes, attach the results of the consultation(s).

## F. Certification

I certify that the discharge for which I am seeking coverage under the general permit consists solely of a surface water discharge from a potable water treatment facility. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature  Date 12-1-09

Printed Name and Title ROBERT F. O'CONNOR, DIRECTOR OF PUBLIC WORKS

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Note: Permits No. MAG640000 and NHG640000 may be found at [www.epa.gov/region1/npdes/pwtfgp.html](http://www.epa.gov/region1/npdes/pwtfgp.html)